

Elastollan® 1154 D FHF

Thermoplastic Polyurethane Elastomer (Polyether)

BASF Polyurethanes GmbH

Message:

Thermoplastic Polyether Polyurethane special products, halogen-free flame retardant.

Typical applications

Cable jackets, Films

General Information			
UL YellowCard	E140250-100033927	E140250-222866	
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
Uses	Cable Jacketing		
	Film		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	58		ISO 7619
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	160	MPa	ISO 527-2
Abrasion Loss	30.0	mm³	ISO 4649-A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			DIN 53504
20% Strain	13.0	MPa	
100% Strain	19.0	MPa	
300% Strain	33.0	MPa	
Tensile Stress			DIN 53504
Yield ¹	20.0	MPa	
Yield	30.0	MPa	
Tensile Elongation ² (Break)	400	%	DIN 53504
Tear Strength ³	110	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	30	%	
70°C, 24 hr	45	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	3.0	kJ/m²	

23°C	50	kJ/m ²
Flammability	Nominal Value	Test Method
Flame Rating		UL 94
-- ⁴	V-2	
--	V-0	
Extrusion	Nominal Value	Unit
Melt Temperature	175 to 220	°C
NOTE		
1.	after storage in water at 80°C for 42 days	
2.	after storage in water at 80°C for 42 days	
3.	Method Bb, Angle (Nicked)	
4.	according to wall section	

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